

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/17/2018 04/17/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_ST0008_01_s _ 2013_3				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_ST0008_01_f _ 2017_4				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood response material.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/17/2018 04/17/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_ST0008_01_s_2013_5				
Comment Code					
Inspector Comment					
The Sacramento Yard has a written response plan and regular flood fight training.					

No Photos

LM Start	0.40	Rating **	U	Issue No.	7
LM End	1.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.605010 °	38.599469 °	
			-121.566808 °	-121.590155 °	
DWR ID	DWR_ST0008_01_s_2018_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2018_ST0008_284_7_20180419_00021.jpg



View of vegetation on the waterside slope. Spring 2018.

LM Start	0.51	Rating **	C	Issue No.	11
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.604473 °	38.604473 °	
			-121.568716 °	-121.568716 °	
DWR ID	DWR_ST0008_01_f_2017_11				
Comment Code					
GA : Garbage					
Inspector Comment					
Couch on landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/17/2018 04/17/2018	Zach Jojola

LM Start	1.09	Rating **	A/W	Issue No.	16	
LM End	1.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.602169 °		38.602169 °
				-121.579000 °		-121.579000 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44787						
DS_ID:19076						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: A concrete saddle found on slough/drainage. No pump was found on LS and no structure/pipe found on WS.						
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, at an unknown depth. Grouted in place. Remains of concrete structure found on the landside (LS).						
[Additional Reference(s): USACE Sacramento O&M Manual 122.1, August 1955, (RM 174)].						
FS Date: 4/28/2015 2:44:05 PM						

Photo 1 of 3 : UCIP_SP_2018_44787_20605.jpg



Landside view: overview

LM Start	1.09	Rating **	A/W	Issue No.	16 (cont)
LM End	1.09	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_44787_20604.jpg



Landside view: remaining of concrete structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

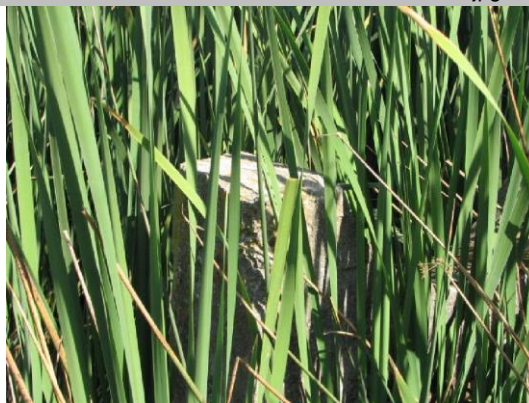
Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/17/2018 04/17/2018	Zach Jojola

LM Start	1.09	Rating **	A/W	Issue No.	16 (cont)
LM End	1.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.602169 °	38.602169 °
				-121.579000 °	-121.579000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44787 DS_ID:19076 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: A concrete saddle found on slough/drainage. No pump was found on LS and no structure/pipe found on WS. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, at an unknown depth. Grouted in place. Remains of concrete structure found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 122.1, August 1955, (RM 174)]. FS Date: 4/28/2015 2:44:05 PM					

Photo 3 of 3 : UCIP_SP_2018_44787_20606.jpg



Landside view: remaining of concrete structure on drainage/slough

LM Start	1.15	Rating **	M	Issue No.	10
LM End	1.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.601892 °	38.599469 °
				-121.580018 °	-121.590155 °
DWR ID	DWR_ST0008_01_s_2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/17/2018 04/17/2018	Zach Jojola

LM Start	1.22	Rating **	C	Issue No.	8
LM End	1.23	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.601597°	38.601538°	
			-121.581188°	-121.581402°	
DWR ID	DWR_ST0008_01_f_2017_8				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:257 Site Designation:LMA-52 Repair Type: Stability Rating:Critical Field Date:6/5/2017 Notes: waterside levee slope failure / rotational failure ; mass extends 5 feet beyond toe					

No Photos

LM Start	1.22	Rating **	C	Issue No.	12
LM End	1.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.601606°	38.601606°	
			-121.581240°	-121.581240°	
DWR ID	DWR_ST0008_01_s_2017_12				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Large sloughing site on waterside levee slope and crown.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/17/2018 04/17/2018	Zach Jojola

LM Start	1.27	Rating **	C	Issue No.	9
LM End	1.28	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.601338 °	38.601262 °	
			-121.582026 °	-121.582274 °	
DWR ID	DWR_ST0008_01_f_2017_9				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:258 Site Designation:LMA-53 Repair Type: Stability Rating:Critical Field Date:6/5/2017 Notes: landside levee rotational slope failure; 2.5 feet vertical cut ; mass extends 5.5' beyond landside levee toe. Repaired as of inspection date.					

No Photos

LM Start	1.28	Rating **	C	Issue No.	13
LM End	1.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.601325 °	38.601325 °	
			-121.582177 °	-121.582177 °	
DWR ID	DWR_ST0008_01_s_2017_13				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Sloughing on landside levee slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/17/2018 04/17/2018	Zach Jojola

LM Start	1.74	Rating **	A/W	Issue No.	15
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.599546 °	38.599546 °
				-121.590235 °	-121.590235 °
DWR ID	DWR_ST0008_01_s_2018_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Runoff erosion on oversized levee section. Lcoated on waterside levee slope. Recommend monitoring.					

Photo 1 of 1 : SP_2018_ST0008_284_15_20180306_00011.jpg



View of erosion on waterside slope. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/17/2018 04/17/2018	Zach Jojoba

LM Start	0.51	Rating **	M	Issue No.	10
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.600325 °	38.597740 °
				-121.564381 °	-121.575582 °
DWR ID	DWR_ST0008_02_s _ 2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.24	Rating **	M	Issue No.	11
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.597314 °	38.594798 °
				-121.577396 °	-121.586466 °
DWR ID	DWR_ST0008_02_s _ 2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/17/2018 04/17/2018	Zach Jojola

LM Start	1.26	Rating **	A/W	Issue No.	1
LM End	1.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.597023 °	38.594527 °
				-121.577558 °	-121.586638 °
DWR ID	DWR ST0008 02 f 2017 1				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description:

Site ID No:260

Site Designation:LMA-55

Repair Type: Erosion

Rating:Area of Concern

Field Date:6/5/2017

Notes: Minor wavewash on landside levee slope; no active erosion; no cross section taken, photo only. No visible damage observed during fall inspection.

LM Start	1.26	Rating **	A/W	Issue No.	1 (cont)
LM End	1.79	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_SP_2018_260_471.jpg



Photo 2 of 3 : LEVAL_SP_2018_260_473.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/17/2018 04/17/2018	Zach Jojola

LM Start	1.26	Rating **	A/W	Issue No.	1 (cont)	
LM End	1.79	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.597023 °	38.594527 °	
				-121.577558 °	-121.586638 °	
DWR ID	DWR_ST0008_02_f_2017_1					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:260						
Site Designation:LMA-55						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/5/2017						
Notes: Minor wavewash on landside levee slope; no active erosion; no cross section taken, photo only. No visible damage observed during fall inspection.						

Photo 3 of 3 : LEVAL_SP_2018_260_475.jpg



LM Start	1.28	Rating **	M	Issue No.	4
LM End	1.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.597138 °	38.597138 °
				-121.578038 °	-121.578038 °
DWR ID	DWR_ST0008_02_f_2017_4				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limb on landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/17/2018 04/17/2018	Zach Jojola

LM Start	1.35	Rating **	C	Issue No.	3
LM End	1.36	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.596831 °	38.596772 °	
			-121.579216 °	-121.579430 °	
DWR ID	DWR_ST0008_02_f_2017_3				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:259 Site Designation:LMA-54 Repair Type: Erosion Rating:Critical Field Date:6/5/2017 Notes: WS levee slope failure/rotational failure; 2.5 feet vertical drop at the hinge; mass extends 3 feet beyond levee toe; slope failure- need to update failure mode to slope instability. Repaired as of inspection date.					

No Photos

LM Start	1.36	Rating **	C	Issue No.	6
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.596772 °	38.596772 °	
			-121.579336 °	-121.579336 °	
DWR ID	DWR_ST0008_02_s_2017_6				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
100' slough section on waterside levee slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/17/2018 04/17/2018	Zach Jojola

LM Start	1.77	Rating **	A/W	Issue No.	5 (cont)	
LM End	1.77	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.594743 °		38.594743 °
				-121.586556 °		-121.586556 °
DWR ID	DWR_ST0008_02_s_2016_5					
Comment Code						
PR : Prunings						
Inspector Comment						
This is a seasonal pile but gets burned by the LMA each year.						

Photo 2 of 2 : SP_2018_ST0008_285_5_20180306_00010.jpg



View of the firewood on the landward side of the levee looking upstream. Spring 2016.

LM Start	1.77	Rating **	A/W	Issue No.	8
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.594710 °	38.594710 °
				-121.586582 °	-121.586582 °
DWR ID	DWR_ST0008_02_s_2017_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Runoff location, but not within the levee prism. Recommend monitoring.					

Photo 1 of 1 : SP_2018_ST0008_285_8_20180306_00012.jpg



View of erosion on waterside levee slope. Spring 2017.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement